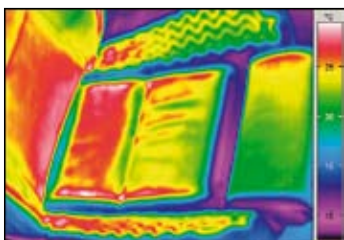
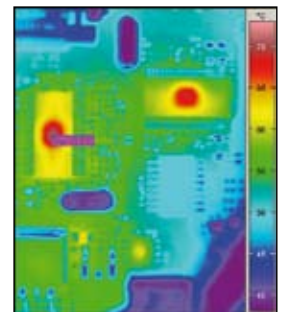
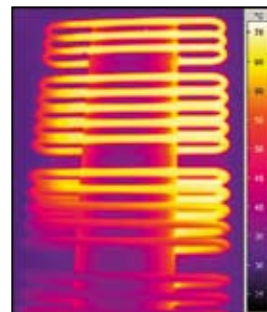
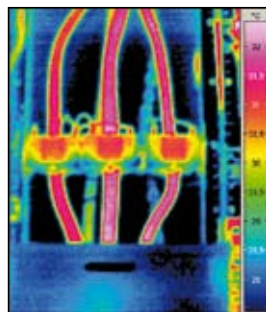
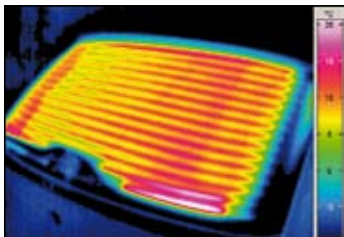
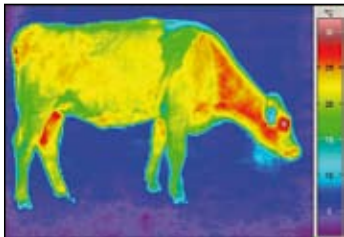
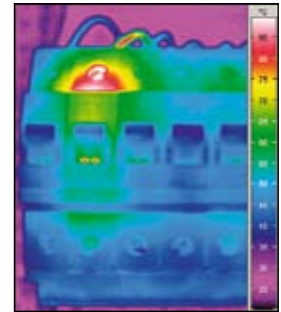
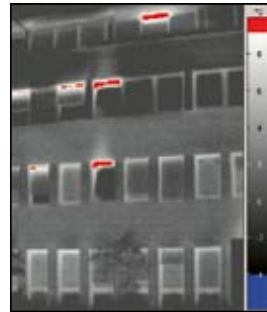
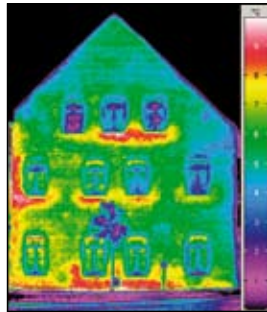
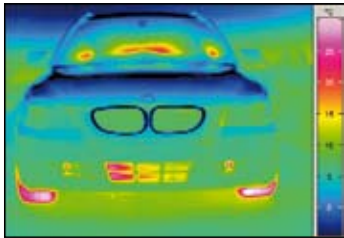


InfraTec mobileIR M4

Mobile miniature thermographic camera



Features

- extreme small and lightweight radiometric thermographic camera
- compact, ergonomically designed housing
- uncooled microbolometer FPA detector with (160 x 120) pixels
- built-in digital colour video camera
- high-resolution 2.2" TFT colour display
- internal large capacity memory for 600 radiometric images
- capable on-board image processing
- transfer of both thermographic and VIS images via USB 1.1
- automatic indication of hotspots
- visual and audible alarm
- laser pointer to determine the location of hot spots
- latest Li-Ion battery technology, operating time > 2 h
- various measurement and auto correction functions
- twofold digital zoom
- voice annotation capability (30 s per image)
- easy single handed operation

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InfraTec mobileIR M4

The smallest mobile thermographic camera

Technical specifications

| | |
|---|--|
| Spectral range | (8 ... 14) μm |
| Detector, image format (pixel) | uncooled microbolometer FPA, (160 x 120) |
| Built-in video camera | CMOS, (640 x 480), 24 bit colour depth |
| Temperature measurement range | (-20 ... 250) $^{\circ}\text{C}$ |
| Measurement accuracy | $\pm 2 \text{ K}, \pm 2 \%$ |
| Temperature resolution at 30 $^{\circ}\text{C}$ | better than 0.12 K |
| IR-frame rate | 50/60 Hz |
| Image field | (25 x 19) $^{\circ}$ |
| Image storage | internal flash memory for more than 600 images |
| Built-in laser pointer | laser class 2, <1 mW / 635 nm (red) |
| Interfaces | PAL composite, headset, USB 1.1 |
| Power supply | quick rechargeable Li-Ion battery |
| Operation temperature, encapsulation | (0 ... 50) $^{\circ}\text{C}$, IP54 |
| Dimensions | (120 x 60 x 30) mm |
| Weight (with battery) | 265 g |

Specifications subject to change without prior notice.

InfraTec mobileIR M4 is an extreme small and lightweight radiometric thermographic camera, convenient usable like a mobile phone. Due to the ergonomic design and an optimal control arrangement the camera is very easy to operate.

The thermographic images are displayed with high quality in a hinged high-resolution TFT colour display which simultaneously provides an overview of the current camera state. InfraTec mobileIR M4 detects smallest temperature differences of already 120 mK within a temperature measurement range of (-20 ... 250) $^{\circ}\text{C}$. A cursor automatically indicates the position of the hottest spot within the image. A hotspot can be additionally located at the object by a built-in laser pointer. InfraTec mobileIR M4 offers various measurement functions like simultaneous analysis of four spots and four areas, representation of line profiles and isotherms and an auto correction of ambient conditions. The documentation of the measuring situation by means of voice annotation and built-in digital colour video camera makes InfraTec mobileIR M4 a convenient tool for predictive maintenance of both electrical installations and mechanical assemblies as well as locating leaks from pipes. Replaceable, quick rechargeable Lithium-Ion batteries and a very low power consumption ensure an outstanding operating time of more than 2 hours. InfraTec mobileIR M4 is therefore dedicated for an inexpensive entrance in thermography for a wide field of industrial applications.

Both thermographic and VIS images can be transferred with the voice annotations via USB 1.1 interface to a PC. InfraTec offers powerful tools of its thermography software suite IRBIS[®] for the off-line data evaluation and report generation.

